

## ARTODE OF BUILDING ANABOLA (DOWN) OR SHOW (NA CONTRACTOR OF A CONTRACTOR OF A

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UNITED STATES DEPARTMENT OF COMMERCE

United States Patent and Trademark Office

August 31, 2004

THIS IS TO CERTIFY THAT ANNEXED HERETO IS A TRUE COPY FROM THE RECORDS OF THE UNITED STATES PATENT AND TRADEMARK OFFICE OF THOSE PAPERS OF THE BELOW IDENTIFIED PATENT APPLICATION THAT MET THE REQUIREMENTS TO BE GRANTED A FILING DATE.

APPLICATION NUMBER: 60/480,046
FILING DATE: June 20, 2003
RELATED PCT APPLICATION NUMBER: PCT/US04/19574

Certified by



Jon ₩ Dudas

Acting Under Secretary of Commerce for Intellectual Property and Acting Director of the U.S. Patent and Trademark Office

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Approved for use through 4/30/2013, OMB 0651-0032

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PROVISIONAL APPLICATION FOR PATENT COVER SHEET

This is a request for filing a PROVISIONAL APPLICATION FOR PATENT under 37 CFR 1.53(c).

Express Mail Label No. EV 332847419 US

		INVE	NTOR	3)					٦	
Given Name (first and middle (if any))		Family Name or Surname				Residence (City and either State or Foreign Country)				
John W.		A	ADAMS			San Diego, California			티	
Daniel T.		CON	CONNOLLY			Cartsbad, California			4	
Additional inventors are being named on the0separately numbered sheets attached hereto								σE		
TITLE OF THE INVENTION (500 characters max)										
Human G Protein-Coupled Receptor and Modulators Thereof for the Treatment of Cardiovascular Disorders										
Direct all correspondence to: CORRESPONDENCE ADDRESS										
Customer Number	000	27737				Place Customer Number				
OR ·	Type Custo	Type Customer Number here					<u></u> _			
X Firm or Individual Name	C. M. McCture									
Address	Arena Pharma	Arena Pharmaceuticals, Inc.								
Address	6166 Nancy Ric	ige Orive		State						
City	San Diego				CA		ZIP	92121-3223	4	
Country	USA			Telephon	858	453-7200	Fax	858/677-0065	_	
	ENC	LOSED APPLICATION	N PARTS	(check all	that app	ily)			_	
X Specification Number of Pages 124 CO(s), Number										
X Drawing(s) Number of Sheets 6 X Other (specify) Sequence Listing (19 pages)								1		
Application Data Sheet. See 37 CFR 1.76										
METHOD OF PAYMENT OF	FILING FEES FO	OR THIS PROVISIONA	L APPLIC	ATION FO	R PATE	NT				
Applicant claims small entity status. See 37 CFR 1.27.  FILING FEE AMOUNT (\$)										
A check or money or	•	_				ļ				
The Director is hereby authorized to charge filing fees or credit any overpayment to Deposit Account Number: \$80.00										
Payment by credit car	d. Form PTO-203	8 is attached.							╛	
The invention was made by United Stales Government.  X No.						n agency of the				
Yes, the name of the	U.S. Government	agency and the Gover	nment coi	ntract numb	er are:_				_ [	
Domonth discoster literal		(Pag	je 1 of 2}		D-1-	Jun 20, 2003			أسنة	
Respectfully submitted, SIGNATURE Devol. 18			Dat			EGISTRATION NO.		50,711		
TYPED or PRINTED NAME Deno P. Dialynas, Ph.D.					(If appropriate)			0.US1.PRO	Ĵ	
TELEPHONE (858) 453-7200										

USE ONLY FOR FILING A PROVISIONAL APPLICATION FOR PATENT

This collection of information is required by 37 CFR 1.51. The information is required to obtain or retain a benefit by the public which is to like (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11. This collection is estimated to take 8 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. This will vary depending upon the individual case. Any connects on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patentant Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. OO NOT SERIO FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Provisional Application, Commissioner for Patenta, P. . Box 1450, Alexandria, VA 22313-1450.

06/20/03

PTO/SB/17 (10-02)
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## FEE TRANSMITTAL for FY 2003

Patent fees are subject to annual revision.

(\$) 80.00

Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT

Name (Print/Type)

Signature

Compl te if Known					
Application Number					
Filing Date	June 20, 2003				
First Named Inventor	John W. ADAMS, et al.				
Examiner Name	n/a				
Art Unit	n/a				
Attorney Docket No.	60.US1.PRO				

METHOD OF PAYMENT (check all that apply)	FEE CALCULATION (continued)							
Check Credit card Money Other None	3. ADDITIONAL FEES							
Deposit Account:	Large Entity   Small Entity							
Deposit Account 50-1441	Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee Paid		
Number	1051	130	2051	65	Surcharge - late filing fee or oath			
Account Name Arena Pharmaceuticals, Inc.	1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet			
The Commissioner is authorized to: (check all that apply)	1053	130	1053		Non-English specification			
Charge fee(s) indicated below Credit any overpayments	1812 2	2,520	1812	2,520	For filing a request for ex parte reexamination			
Charge any additional fee(s) during the pendency of this application	1804	920*	1804	920°	Requesting publication of SIR prior to Examiner action			
Charge fee(s) indicated below, except for the filling fee to the above-identified deposit account.	1805	1,840°	1805	1,840°	Requesting publication of SIR after Examiner action			
FEE CALCULATION		110	2251	55	Extension for reply within first month	1		
1. BASIC FILING FEE	1252	400	2252	200	Extension for reply within second month			
Large Entity Small Entity	1253	920	2253	460	Extension for reply within third month			
Fee Fee Fee Fee Paid Code (\$) Code (\$)	1254	1,440	2254	720	Extension for reply within fourth month			
Code (\$) Code (\$) 1001 740 2001 370 Utility filing fee	1255	1,960	2255	980	Extension for reply within fifth month			
1002 330 2002 165 Design filing fee	1401	320	2401	160	Notice of Appeal			
1003 510 2003 255 Plant filing fee	1402	320	2402	160	Filing a brief in support of an appeal			
1004 740 2004 370 Reissue filing fee	1403	280	2403	140	Request for oral hearing			
1005 160 2005 80 Provisional filing fee 80.00	1451	1,510	1451	1,510	Petition to institute a public use proceeding			
SUBTOTAL (1) (\$) 80.00	1452	110	2452	55	Petition to revive - unavoidable			
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE	1453	1,280	2453	640	Petition to revive - unintentional			
Fee from	1501	1,280	2501	640	Utility issue fee (or reissue)			
Total Claims Delow Fee Paid	1502	460	2502	230	Design issue fee			
Total Claims 20** = X		620	2503		Plant issue fee			
		130	1460	130	Petitions to the Commissioner			
` ' <del>'</del>	1807	50	1807	50	Processing fee under 37 CFR 1.17(q)			
Large Entity   Small Entity Fee Fee Fee Fee Description	1806	180	1806	180	Submission of Information Disclosure Stmt			
Code (\$) Code (\$) 1202 18 2202 9 Claims in excess of 20	8021	40	8021	40	Recording each patent assignment per property (times number of properties)			
1201 84 2201 42 Independent claims in excess of 3	1809	740	2809	370	Filing a submission after final rejection (37 CFR 1.129(a))			
1203 280 2203 140 Multiple dependent claim, if not paid	1810	740	2810	370	For each additional invention to be			
1204 84 2204 42 ** Reissue independent claims over original patent	1801	740	2801	370	examined (37 CFR 1.129(b))  Request for Continued Examination (RCE)			
1205 18 2205 9 ** Reissue claims in excess of 20 and over original patent	1802	900	1802	900	Request for expedited examination of a design application			
SUBTOTAL (2) (\$) 0.00	Other f	ee (sp	ecify) _					
SUBTOTAL (2) ((5) 0.00 )  Tor number previously paid, if greater, For Reissues, see above	*Reduced by Basic Filing Fee Paid SUBTOTAL (3) (\$) 0.00							
SUBMITTED BY Express Mail Label No. EV 332847419 US (Complete (if applicable)								

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Registration No.

50,711

Telephone

(858) 453-7200

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Deno P. Dialynas